

ABSTRACT

This invention relates to human vanilloid receptor-like protein 2 (VRL-2) polypeptides, polynucleotides encoding such polypeptides, polynucleotide probes or primers, expression vectors and host cells comprising such DNA molecules. This invention further relates to a process for producing the polypeptides; an antibody immunospecific for the polypeptide; a diagnostic kit for diagnosing the VRL-2 receptor related disease; a method for screening to identify modulators which modulate the polypeptides; modulators identified by the screening method; a pharmaceutical composition for treatment of conditions associated with biological function of the polypeptides; and a non-human transgenic animal model for vanilloid receptor-like gene. The polypeptides and the DNA molecules of the present invention can be used to identify agonists, antagonists or the like. These agonists and antagonists are useful for treatment of diseases such as pain, nociceptive pain, chronic pain, neuropathic pain, postoperative pain, cancer pain, rheumatoid arthritic pain, osteoarthritis, diabetic neuropathies, neuralgia, neuropathies, algesia, nerve injury, muscle-skeletal pain, low back pain, neurodegeneration, stroke, inflammatory disorders, asthma, allergy, urogenital disorders, incontinence, hypertension, hypotension, perivasular disease and the like.